

CONSTRUCTION PERMIT APPLICATION

SCHEDULE-8, Aeration

Date Prepared	Project Identity
Date Revised	

1. If the aerator is designed to remove any of the following gases, give the concentration of gas in the raw water:

a. carbon dioxide: _____ mg/l
 b. hydrogen sulfide: _____ mg/l
 c. other _____ (contaminant) _____ mg/l
 _____ (contaminant) _____ mg/l

2. If the aerator is being provided for the removal of VOC contamination, what is its gas transfer efficiency? _____

3. What provisions have been made for aerator bypass?

4. What provisions have been made for influent and effluent sampling?

5. If natural, forced or induced aerators are provided: N/A ☐

a. Capacity: _____ gpm
 b. Number of splash trays: _____
 c. Tray separation distance: _____ inches
 d. Total tray area: _____ square feet
 e. Tray loading rate: _____ gpm/ft²

6. If pressure aeration is provided: N/A ☐

a. Capacity: _____ gpm
 b. Has a pilot plant study been conducted to verify that a pressure aerator will perform satisfactorily? Yes ☐ No ☐
 c. How is mixing of the compressed air and water provided? _____
 d. What type of screen or filter is provided for the intake of the air compressor? _____
 e. Air compressor capacity: _____ cfm.

7. If spray aeration nozzles are provided: N/A ☐

a. Capacity: _____ gpm
 b. Type: _____
 c. Number of nozzles: _____
 d. Spacing of nozzles: _____
 e. Discharge pressure: _____ psi

8. Has the aerator exhaust port been located outside the treatment plant area in a location that will prevent potential noxious fumes from entering work areas? Yes ☐ No ☐ spec. page no. _____ If no, explain _____